

Gyration



R4000 PC & AV MUSIC REMOTE WITH ULTRASENSE™ AIR-MOUSE TECHNOLOGY

**United States Version** 

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#### Introduction

This users' manual describes the operation of the R4000 PC & AV Music Remote Control Unit with UltraSense™ Air-Mouse Technology (RCU). The RCU contains an embedded micro gyro for motion sensing and in-air control of a floating cursor. This RCU features IR code database and IR learning capabilities to universally control standard home theater devices such as TVs, VCRs, Digital Video Recorders (DVR), DVD players, CD players, cable/SAT boxes, etc. Using the Music Display on the RCU, you can browse through your audio files and listen to your music on the PC without going to your computer. This RCU links directly to your Windows Media Player® or ¡Tunes® Audio library.

The RCU is also equipped with a 2.4 GHz RF transceiver to send cursor movement information and other commands to the PC via a USB transceiver. The radio frequency (RF) transceiver delivers a range of up to 100 feet with no line-of-sight requirement. The 800 possible channels of the RF transceiver provide high resistance to interference from other radio devices.

#### **Battery Installation and Information**

The R4000 PC & AV Music RCU requires four AAA Alkaline batteries. To install the batteries:

- 1. Remove the battery compartment cover.
- Insert the batteries, matching the batteries to the (+) and (-) marks inside the battery compartment.
- 3. Replace the battery compartment cover and snap it into place.

#### **Battery Saver**

The RCU saves battery power by automatically going into a low-power state if no button is pressed after a few seconds. See the Gyro section for avro battery saver mode.

#### **Product Registration Information**

Keep your sales receipt to obtain warranty parts and service and for proof of purchase. Attach it here and record the serial number in case you need it. The serial number is located on the product.

Model Number _		
Serial Number _	Purchase Date	
Dealer/Address/	Phone	

### **Gyro Operation**

The RCU provides in-air control of the PC's cursor via patented gyroscopic motion sensing technology. This means mouse-like cursor control, from anywhere in the room, without the need of a flat surface. There is no line-of-sight requirement so you don't have to point the RCU at the PC you are controlling. Remember the following things when using the in-air cursor control feature of the RCU:

- Use your thumb to press the gyro and mouse buttons.
- Click the center button to activate the gyro motion-sensing control. Single click and hold to move the cursor and release it to "park" the cursor where you want it. Double click the center button and release it for continuous cursor movement similar to a standard mouse.
- The right and left buttons function like standard mouse right-click and left-click buttons
- Move the cursor by flexing your wrist, not your arm or body, much as you would with a flashlight; side to side and up and down.
   Placing your arm on an armrest or on your lap will make this motion more comfortable
- The RF Transmit LED indicates when gyro motion or other information is being sent. The LED does not illuminate when transmitting IR information.





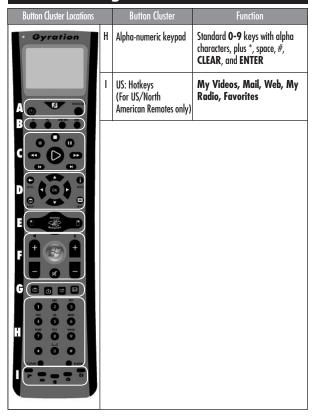
#### **Product Diagram** Button Cluster Locations Button Cluster Gyration Power/Standby: Places the PC into Standby (or power off dependant on the PC Power (standby), Music Display Button, Backlighting configuration) "Music Display Button" Start Music display interaction with PC Backlight: Turns on and off the backlight RF Status LED is located at top • • left corner (next to Gyration company name) RCU mode selection Selects RCU mode TV: IR legacy control PC: RF communication to PC Cable/Satellite: IR legacy and power control Auxiliary: IR legacy control C Transport control Standard AV control for selected transport or Windows Media Player, iTunes, Windows Media Center, DVR, etc. (Play, pause, stop, etc) Includes IR control of legacy devices if supported in IR database

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## **Product Diagram** (continued)

Button Cluster Locations		Button Cluster	Function
A G E G G G G G G G G G G G G G G G G G	D	Menu navigation	Standard menu navigation: up, down, left, right, OK. Includes MS required buttons: BACK: RF=Back, IR=Last MORE: RF= More Info, IR=None Includes other buttons: INPUT: RF=none, IR=TV Input selection MENU: RF=DVD Menu, IR=Menu
	E	Gyro button cluster	Center button activates gyro for in-air cursor control. Outer buttons function like standard left and right mouse buttons.
	F	Volume and Channel control, eHome (Vista MCE Green Button), Mute	Standard volume up/down, channel up/down, Vista Media Center eHome, and volume mute.
	G	Media Center shortcuts	Shortcuts buttons to easily navigate within the Media Center environment. Recorded-TV, Live TV, My Pictures, Guide

## Product Diagram (continued)



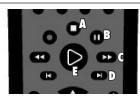
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## **RCU Mode Selection**



- A Puts RCU into *TV control mode* for communicating with TV via IR protocol.
- Puts RCU into *PC control mode* for communicating with the PC via RF protocol.
- Puts RCU into Cable / Satellite control mode for communicating with Cable or Satellite box via IR protocol.
- Puts RCU into *Aux mode* for communicating with an auxiliary device via IR protocol.
- PC, TV, CAB/SAT, AUX mode: Powers on/off the selected device.
- PC Mode: Issues a standby command. If the system is active, the first button pressed puts it into standby mode. If the system is already in standby mode, a button press will awaken.
- F Music Display Button Turns on Display and puts RCU into Music control mode for playing music stored on your PC.
- Backlight Toggles the backlight for the button keys. If the Display is active, the Display backlight will turn on or off.
- H Transmit LED indicator for RF transmission only

# **Transport Control**



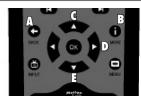
	TV, CAB/SAT, AUX Mode or Music Mode:	PC Mode
A	Puts selected device into Stop mode, if supported	Stops media playback and positions pointer to start of media
В	Puts selected device into Pause mode, if supported	First button press will pause the media at present position. Subsequent button presses toggles between pause and playback at present position pointer.
C	Puts selected device into Fast Forward mode, if supported	Fast Forwards media.
D	Skip command, if supported by selected device	Skips ahead an increment: CD and Playlists skip to next song. DVD skips to next chapter. Slide show skips to next picture. DVR skips 29 seconds.
E	Puts selected device into <i>Play</i> mode, if supported	Start (if paused, continue) playback of media at present position pointer. Used by Media Center for Media Center media, DVR, CD/DVD, playlists and slide shows.

# **Transport Control**



	TV, CAB/SAT, AUX Mode or Music Mode:	PC Mode
F	Replay command, if supported by selected device	Move the position pointer back an increment: CD and Playlist: skips back to previous song. DVD: skips back to previous chapter. Slide show: skips back to previous picture. DVR skips back 7 seconds
G	Puts selected device into <i>Reverse</i> mode, if supported	Rewinds media.
Н	Puts selected device into <i>Record</i> mode, if supported	Records the TV show to disk. Starts recording at the beginning of the show as defined by on-screen TV program guide (if the pause buffer enables it)

# **Menu Navigation**



	TV, CAB/SAT, AUX Mode or Music Mode:	PC Mode
A	BACK - IR: Goes back one location (if supported)*	Goes back one location of the user interface
В	MORE - IR: Provides more information (If supported)	Provide information if available for the focus point
С	Menu Navigation Up*	Moves the focus point up one location, if at top of the screen takes no action
D	Menu Navigation Right*	Moves focus point right one position, if at rightmost position takes no action
E	Menu Navigation Down*  * See Music Display Navigation Section for information on using the Music Display	Moves the focus point down one location, if at bottom of the screen takes no action

# **Menu Navigation**



TV, CAB/SAT, AUX Mode or Music mode:	PC Mode
Menu Navigation Left*	Moves focus point left one position, if at leftmost position goes back 1 page in the user interface
Menu OK Performs action indicated by focus point*	Performs action indicated by focus point
Menu IR: Setup menu	Media Center "DVD Menu"
TV Input IR: (TV Mode) Cycles through the TV inputs. No action in other modes  * See Music Display Navigation Section for information on using the Music Display	No action
	Mode or Music mode:  Menu Navigation Left*  Menu OK Performs action indicated by focus point*  Menu IR: Setup menu  TV Input IR: (TV Mode) Cycles through the TV inputs. No action in other modes  * See Music Display Navigation Section for information on using

# **Gyro Activation/Select**



- A Performs a left-mouse button-click
- B Performs a right-mouse button-click
- C Activates gyroscope for motion-sensing cursor control, motion-sensing menu navigation, or other motion-sensing features. Single click and hold to move the cursor and release it to "park" the cursor where you want it. Double click the center button and release it for continuous cursor movement similar to a standard mouse.

# Channel/Volume Control & Media Center Green Button



	TV, AUX or CAB/SAT Mode	PC Mode
A	Goes to Windows Vista Media Center Home page, launches Media Center if not running already.	Goes to Windows Vista Media Center Home page, launches Media Center if not running already.

**Channel/Volume Control & Media Center Green Button** 



	D		
	TV, AUX or CAB/SAT Mode	PC Mode	
В	Increment the current channel by 1	Increment the current channel by 1. If in a list view, move up a page in the list.	
C	Decrement the current channel by 1	Decrement the current channel by 1. If in a list view, move down a page in the list.	
D	Mute selected device, if applicable	Mute the entire PC volume, toggle mute state	
E	Increment the current volume by 1 unit	Increment the current PC volume by 1 unit. If muted, un-mute the volume first.	
F	Decrement the current volume by 1 unit	Decrement the current volume by 1 unit. If muted, un-mute the volume first.	

# **MCE Shortcut Buttons**



	PC, TV, AUX or CAB/SAT Mode	PC Mode
A - Recorded-TV	No action	Shortcut to the Windows Media Center "Recorded TV" page
B - Live TV	No action	Brings Media Center Live TV to the front
C - My Pictures	No action	Shortcut to the Windows Media Center "My Pictures" page
D - Guide	Shows the EPG (electronic program guide) for the particular device selected	Invokes the on-screen Media Center TV programming guide

# **Numeric Keypad**

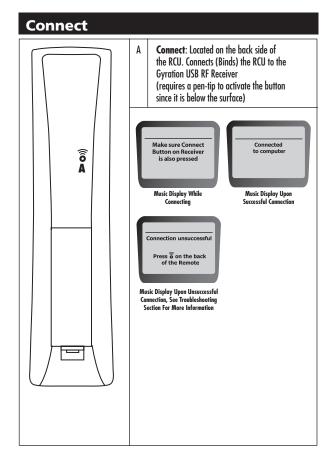


	PC, TV, AUX or CAB/SAT mode	PC Mode
A	Standard 1-9, alphanumeric	Standard 1-9, alphanumeric
В	Inserts a * symbol, if supported by the selected device	*
С	Inserts a # symbol, if supported by the selected device	#
D	Clear, if supported by the selected device	Clear
Ε	Enter, if supported by the selected device	Enter

# **Shortcut Buttons**



- A | My Videos: Microsoft defined button Shortcut to the Windows Media Center "My Videos" page
- B Mail: Launches default email program on the PC
- C Web: Launches default web browser on the PC
- D My Radio: Microsoft defined button Shortcut to the Windows Media Center "My Radio"
- Favorites: Displays the Web Browser "favorites" (favorite URL addresses).
  Only active when the Web browser is the focus.



### **Backlighting**

The RCU Mode Selection buttons (TV, PC, CAB/SAT, and AUX) are lit when pressed; these buttons light up (for 2-3 seconds) whenever they are pressed to indicate which Control Mode the remote is in.

There is no automatic backlighting on any of the RCU buttons. The "Backlight" button controls the backlight of the RCU buttons and the Display. Upon pressing the "Backlight" button, the main RCU keys will be backlit. If the Display is active (by pressing the Display button), the Display will also become backlit.

The backlight acts as a toggle and can also be used to turn off all backlighting. Additionally, the backlighting will timeout after a short amount of time (timeout occurs after last button pressed and the backlight turns off if no other button is pressed within 10 seconds).

If the backlighting seems dim, the batteries may need to be replaced.

### **Power / Standby Toggle Button**

This button turns the selected device on or off or toggles its power state from standby to active. The device is selected with the RCU Mode Switches; PC, TV, CAB/SAT, and AUX.

In *PC* mode, this button issues a standard Windows® *STANDBY* command. Various options for this command can be set up in Windows. Go to Start/Control Panel/Power Options/ Advanced and then set a function for the *STANDBY* command. In the default configuration, if the PC is already on, press this button to put the PC into standby mode. If the PC is in standby mode, press and hold this button for 2 - 3 seconds to wake up the PC.

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### **RF Receiver & Synchronization**

Communication between the RCU and the PC is done via an RF transceiver which is plugged into a standard USB port in the PC. In order for this to work, you need to synchronize, or "bind" your remote and PC. See below for the binding procedure.

#### **Receiver Installation**

The RCU requires a USB RF transceiver be plugged into a USB port in the PC in order to access RF and gyro functions. The USB extension cable can be used to maximize the range of the RCU by placing the USB RF transceiver away from other electrical components. A USB RF transceiver does not need to be plugged in to use the IR remote functions. See the diagram below.



# Setting Up & Synchronizing The Remote & The PC

After inserting the batteries in the remote control unit,

- 1. Hold the remote in close proximity to the PC.
- Press the CONNECT button on the RF Dongle transceiver which is plugged into the PC USB port.

- 3. Press the **CONNECT** button on the underside of the RCU.
- 4. The Display screen on the RCU will indicate a successful connection.
- 5. If a successful connection is not made, repeat steps 1 3

#### **USB Features**

- Connects to PC via standard USB 1.1 or USB 2.0 connection
- PC operating systems supported: Windows Vista, Windows XP MCE, and Windows XP
- LED to indicate bind sequence and radio activity
- Connect button, pen-push type

### **USB Compatibility**

The transceiver uses a standard USB Type A connector for connection to any standard USB port of a computer. The transceiver is a certified USB compatible 2.0 device, running at low speed. It is certified to run on Windows Vista, Windows XP MCE, and Windows XP.

# Transceiver Compatibility Matrix with Gyration Products

This transceiver is compatible with the following Gyration products:

R4000 (The Music Service and Music Display functions of this remote require use of the included R4000 RF Receiver to fully function)

**Gyration Go Mouse** 

Gyration Go Mobile keyboard

Gyration Go Full size keyboard

Gyration Media Center Universal Remote Control

Gyration GyroTransport

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#### **Programming the Remote**

The RCU can be programmed to operate many brands of IR controllable devices via the IR functions of the RCU. Devices include TVs, DVD Players, Cable/Satellite Boxes, etc. Please see the Remote Code List for all devices supported.

#### Find Out If You Need to Progam the Remote

To determine whether the remote needs to be programmed to operate your device, do the following (using the TV as an example)

- 1. Turn on the TV.
- 2. Point the remote at the TV.
- 3. Press the TV button.
- Press the ON/OFF button to see if the TV responds. If the TV doesn't respond, you must program the remote to operate it.

#### **Programming Methods**

There are two ways to program the remote control: the Menu Based Programming Method and the Direct Programming Method.

#### Menu Based Programming Method

To enter the Menu Based Programming Method, press and hold the device mode button of the particular device to be programmed. After three seconds, the main menu will appear on the display. All programming steps can now be completed by following the on-screen menu. Here is an example main menu that will be displayed after holding down the TV device mode button:



**Direct Programming Method:** The Direct Programming Method allows you to perform one particular programming step directly, as outlined below. To program the remote control to operate other components you may choose between Automatic Code Search and Direct Entry.

**Using Automatic Code Search:** The following instructions can be used to program the RCU to operate each of your components. If you want to stop the automatic code search without programming any of your components, press **CLEAR** and the indicator on the RCU turns off.

- 1. Turn on the device you want to operate (TV, DVD player, etc.)
- 2. Press and hold the device button you want to program (TV, AUX, etc.). While holding the device button, press and hold ON/OFF button until the device button on the RCU turns on, then release both buttons. When the RCU has successfully entered search mode all devices buttons turn on. NOTE: This step must be completed within 2 seconds to activate Automatic Code Search without entering the Menu Program Method.
- 3. Point the remote at the device.

#### **Programming Methods** (continued)

4. Press and release PLAY, then wait 5 seconds or until the device button stops flashing. At this point the RCU is searching for the correct code to program. If, after 5 seconds, the device you want to operate does not turn off, press PLAY again to tell the RCU to search the next set of codes. Continue pressing and releasing PLAY until the device turns off or you have searched through all of the codes. The device buttons flash when all codes have been searched, the device button turns off, and after 30 seconds the RCU exits the Automatic Code Search made.

If the component you want to control does turn off:

- Press and release REVERSE, then wait 2 seconds. Repeat this step until the component turns back on.
- To finish, press STOP and the devices buttons on the RCU turn off. The RCU will automatically exit the Automatic Gode Search mode.

#### **Using Direct Entry**

- 1. Turn on the device you want to operate (TV, DVD player, etc.)
- Look up the brand and code number(s) for the device in the Remote Code List at the end of this booklet.
- 3. Press and hold the device button you want to program ((TV, AUX, etc.) on the RCU.
- 4. Enter the 4-digit code from the Remote Code List.
- Release the device button, if all the mode buttons flash, you have entered an invalid code. Otherwise, point the RCU at the device, and then press the ON/OFF button to see if the device responds to the command.
  - If you get no response, repeat these steps using the next code listed for your brand, until the device responds to the remote commands.
  - If you try all the codes for your device brand and none work, try the automatic code search method. If automatic code search doesn't find the code, the remote is not compatible with your component.

Because the RCU controls more than one device, you must first "tell" it which device you wish to operate. For example, if you wish to operate the TV, you must first press the TV mode button on the RCU to put it in the TV mode.

The RCU stays in the chosen mode until you change it. If the RCU is in the TV mode, you must change the mode in order to operate other components. For example, if you are in the TV mode and you wish to turn off the Cable Box, you must first press the CAB/SAT button then the On/Off button. Return to the TV mode by pressing the TV mode button.

**Programming Methods** (continued)

#### **Volume Punch Through**

The Volume Punch Through feature allows you to control the volume without exiting the current mode. When Punch Through is enabled, the VOL+, VOL-, and MUTE keys will always control the Punch Through device. By default the TV is the Volume Punch Through device. To disable Volume Punch Through, see the "Disabling Volume Punch Through" Section below.

Note: Volume Punch Through only applies to the three IR Mode Device Buttons (TV, CAB/SAT, and AUX).

**Note:** The remote must be programmed via Automatic Code Search or Direct Entry before enabling Volume Punch Through.

To change the Volume Punch Through device or enable Volume Punch Through:

- Press and hold the device button of the device you want to Punch Through (TV, AUX, etc.) on the RCU.
- Press and hold the VOL- button until all device buttons on the RCU turn on, then release both buttons.

Volume Punch Through is now enabled for the selected device. NOTE: The steps to enable Volume Punch Through must be completed within 2 seconds to activate without entering the Menu Program Method.

#### Disabling Volume Punch Through

To disable Volume Punch Through:

- 1. Press and hold any device button (TV, AUX, etc.) on the RCU.
- 2. While holding the device button, press and hold the MUTE button until all of the device buttons turn on.

Volume Punch Through is now disabled.

NOTE: The steps to disable Volume Punch Through must be completed within 2 seconds to successfully disable without entering the Menu Program Method..

**Note**: If an invalid button is pressed, all device buttons blink 4 times and turn off. At this point, you must start over.

Once Volume Punch Through is disabled, the VOL+, VOL-, and MUTE keys will control the device currently selected by the Device button (PC, TV, CAB/SAT, or AUX). To enable Volume Punch Through, see the "Volume Punch Through" Section above.

#### Learning

The RCU has the ability to *learn* the commands of other remote control units, such as TV remotes or VCR remotes. This allows the most-used commands on those remotes to be combined on the RCU. These original remote control units are also known as source remotes. Learning is not active in the PC mode.

#### **Learning Tips**

- All learned functions for a mode can be erased if you program a different device to that mode.
- Perform the learning process in low-light areas because too much ambient light might cause interference with the infrared (IR) signals of the remotes.
- 3. Use fresh batteries in both the RCU and the original remote.
- 4. Set the two remotes on a table or other flat surface, and don't move them around while learning.

#### **Code Learning**

Codes from the Remote Code List include basic functionality for 2" apart each component they control. Once you have programmed in the code for your specific component (using either the Automatic Code Search or Direct Entry method), you can customize the RCU to perform certain functions from your original remote(s) that were not embedded in the preset code. The RCU has the ability to learn and store commands from your original remote(s) under the mode(s) of your choice.

#### **Learning Commands**

For the following section, the TV remote control unit will be used as an example. Learning from other types of remotes will be done in a similar way.

- First press and hold the device button on the RCU for the component remote you are learning from (the TV button on the RCU, for example) then press and hold the RECORD button on the RCU.
- Keep pressing both buttons until all device mode buttons turn on. Release both buttons. The selected device button will remain on indicating which device is being programmed.

NOTE: The first two steps to learn commands must be completed within 2 seconds to learn without entering the Menu Program Method.



Remotes should not be more than

ds

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#### Learning (continued)

 On the RCU, press and release the button where you want to store the new function (the device button turns off).

**Note:** If you press an invalid button on the remote, the device mode button flashes 4 times to alert you. You'll have to repeat step 3.

4) Position the source remote facing the bottom of the RCU no more than 2 inches apart. Press and hold the button of the source remote that has the functionality you are recording. Keep pressing the button until the RCU device mode button light turns on (the source function has been saved to the TV mode on the RCU).

**Note:** If all device mode buttons flash 4 times, the function wasn't learned. Try again starting with Step 1.

- 5) The RCU remains in the "learning mode" so you can continue adding functions to different buttons by repeating steps 3 and 4.
- 6) Press CLEAR to exit the learning mode.

#### **Clearing an Individual Learned Function**

To delete a learned button function, use the procedure below.

- Press and hold the device mode button (the device button lights). Then press and hold the STOP button. Hold both buttons depressed until all device mode buttons turn on.
- NOTE: This step to must be completed within 2 seconds to be able to clear an individual learned function without entering the Menu Program Method.
- Release both buttons. The device mode button turns on indicating that the RCU is now in the Clear Learned Function mode for that device.
- Press and release the button where learning is to be cleared. The device mode button blinks off then back on indicating that the function was cleared successfully.
- 4. Repeat Steps 1 through 3 until all the buttons' learned functions have been cleared. Note: If an invalid button is pressed, the device mode button flashes 4 times, the selected component button stays on, and the RCU remains in Clear Learned Function mode. Repeat Step 3 to continue the clearing process.
- 5. Press the CLEAR button to return the RCU to normal operation.

### **Deleting All Learned Functions - One Device**

To delete all learned functions for one device at one time, use the procedure below.

 Press and hold the device mode button (the device button lights). Then press and hold the CLEAR button. Hold both buttons depressed until all device mode buttons turn on. NOTE: This step to must be completed within 2 seconds to be able to clear all learned

functions from a device without entering the Menu Program Method.

- Release both buttons. The device mode button turns on indicating that the RCU is now in the Deletina All Learned Functions mode for that component.
- Press and release 1, 2, 3 and all of the learned keys for that device will be erased. Any other key will exit the Deleting All Learned Functions mode.

Note: Pressing the CLEAR button while in this mode will not delete the learning functions, but it will exit this delete mode.

#### **Music Mode**

Music mode is a revolutionary new way for you to search through and play your favorite songs that you have already setup on your Windows PC. It links directly to your Windows Media Player or iTunes Audio library so that you can browse through your audio files and listen to your music without going to your computer.

**Note:** This mode of the RCU is intended for use on the Windows operating system using the Windows Media Player application (version 10 or higher) or iTunes application (version 7.5 or higher). Operation on other operating systems has not been verified.

### **Gyration Music Service Application**

The RCU comes with a software application that runs in the background (as a "service") on the computer (PC) and interfaces to the Windows Media Player or iTunes music database. The application communicates the music database information to the RF transceiver attached to the computer. The information is then transmitted via RF to the RCU and shown on the display.

Gyration Music Service Application is required for operation of the Music display. This Software service is provided via an installation CD. Check for software updates at www.gyration.com.

During installation of the software service, you will select the default music interface, Windows Media Player or iTunes. The music interface can be changed at any time by clicking on the tray icon, where there are two menu items (Windows Media Player and iTunes), with a check mark next to the active



one. You simply click on the other one to change the setting.

This software service can be enabled/disabled manually by the user. The service is set to "enabled" by default (upon system boot). Disabling the service has no effect on normal RCU operation (TV, PC, CAB/SAT, and AUX modes), but will make the display inoperable.

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When you press the Music Display button ( Display powers up and displays the top level menu structure. (If service application is running and within range, see the Troubleshooting section for more details).



To move up and down the screen, use the **UP** and **DOWN** arrow keys.



To enter a menu level, use either the right (or OK) button. To back out of a level, use the left (or Back) button. You can play the whole album by pressing the Play button at this level, or enter the album and select a specific song.

**Note:** As you navigate through the menu the heading changes on the top line.



While a song is playing, the MP3 Tag information (called Metadata) will be shown on the display along with a progress bar, the current running time and the time left for that song,



### **Troubleshooting**

#### Adjusting the Contrast on the Display

- To adjust the contrast on the Display, perform the following steps:
- 1. With the Display screen active, press and hold the 🗗 button located beneath the Display screen.
- 2. Continue to hold the Dutton after the Display screen turns off for 5 more seconds.
- 3. The Display Contrast adjustment screen will appear.
- 4. Use the menu navigation up and down arrows to adjust to the desired appearance.
- 5. Press any button to exit.
- 6. If no button is pressed, the display will time out in about 5 seconds.

Note: The contrast settings range from 0 (lightest) to 21 (darkest). Low levels of the contrast setting may cause the unit to have no visible display.

**Note:** The contrast value is stored, even when removing the batteries.

#### Reinstalling the R4000 Installation Software

To reinstall the R4000 Installation Software service application, perform the following steps:

- 1. With Windows® running on your computer, insert the CD into your CD/DVD-ROM drive.
- 2. If the CD window does not open automatically, double-click the My Computer icon on your desktop, and then double-click the CD/DVD-ROM drive containing the CD.
- 3. Locate the install package provided on the CD for your RCU.
- 4. Follow the instructions provided by the CD to extract and install the application.

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### **Troubleshooting**

#### **Common Problems and Solutions**

Cursor Control Issues		
Problem	Cause	Solution
The Display screen does not match or show the updates to the Windows Media Player or iTunes audio library.	The Gyration Music Service Application did not update correctly.	Restart Application, by clicking the Gyration Music Service (green) icon on the Windows Taskbar, and clicking "Restart."
	The Display screens needs to be manually refreshed.	Press the Dutton to return to the Main Menu.
	The Display screens needs to be manually refreshed.	Use the menu navigation buttons to move up or down from the current level in the Display screen.
The Menu Navigation buttons are non-responsive while the Display screen is active.	The Gyration Music Service Application has lost contact with the remote control.	Refresh the Display screen by pressing the button for three seconds to shut off the Display screen, then pressing the button again to turn the Display screen back on.
	The remote control is out of range with the computer. (Display shows: out of range)	Place the remote control closer to the computer.
The cursor does not move when the "Motion by Gyration" button is pressed.	The remote control and computer are not connected.	Connect the RCU with your computer.
	The batteries are low.	Replace the batteries.

# Troubleshooting

### **Common Problems and Solutions**

Cursor Control Issues		
Problem	Cause	Solution
The cursor movement is choppy or erratic.	There may be radio interference near the computer.	Move any electronic devices away from PC (i.e., speakers, radio, etc.).
The cursor moves too fast or too slow.	The speed or acceleration is not set properly.	Change the cursor tracking speed under the Mouse settings in the Control Panel.
The cursor drifts on the screen.	The remote control sensor may require self-recalibration.	Place the remote control on a flat surface for 5 or more seconds. The gyroscope will perform a self-steady routine to identify and eliminate drift.
The cursor moves even when I'm not pressing the "Motion by Gyration" center button	You are in continuous cursor movement mode.	Press the "Motion by Gyration" button to exit this mode. See the Gyro Operation section for more details.
The Power/Standby button does not wake the computer out of Standby mode.	If the computer is placed into Hibernation or Shutdown mode, and then the AC power is removed, the internal receiver loses its power and cannot wake the system (even if AC power is reapplied).	Turn on the computer manually using the system Power button.
	If the BIOS setting for Wake from USB is disabled, the system will not turn back on via the remote control.	Enable the wake from USB option in the system BIOS. For information on accessing the system BIOS, see your Owner's Manual.
	The Power/Standby button may need to be held down for PC to recognize it.	Press and hold the Power/ Standy button for 2 -3 seconds to wake the PC. See the Power / Standby Toggle Button section for more details.

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# Troubleshooting

### **Common Problems and Solutions**

Cursor Control Issues	Cursor Control Issues											
Problem	Cause	Solution										
The text "NO LINK" is displayed on the Display screen.	The remote control and computer are not connected.	Connect the R4000 Music Remote with your computer.										
NO LINK Out of range												
The text "NO SERVICE" is displayed on the Display screen.	There may be radio interference near the computer.	Move any electronic devices away from PC (i.e., speakers, radio, etc.).										
NO SERVICE Application	The remote control is out of range with the computer.	Place the remote control closer to the computer.										
inactive Use tray icon on computer to enable	The Gyration Music Service Application is not enabled.	To re-enable the Application, click the Gyration Music Service (red) icon on the Windows Taskbar and click "Start."										
The text on the Display Screen is in English (if applicable).	All text in the remote control Display screens will be in English until a successful connection to the computer has been made.	Connect the R4000 Music Remote with your computer.										

Brand	Code								
TV									
Abex	1098								
Acer	1041								
Admiral	1001	1099							
Adventura	1100								
Aiko	1015								
Aiwa	1034								
Akai	1002								
Alleron	1044								
Amtron	1036								
Anam National	1003	1036							
AOC	1004	1005							
Apex	1074	1088	11111	1119					
Audiovox	1036								
Bell & Howell	1001	1045							
Benq	1042	1136							
Bradford	1036								
Broksonic	1114	1121							
Candle	1004	1007	1100						
Celebrity	1002								
Citizen	1004	1007	1015	1036	1073	1097			
Colortyme	1004								
Concerto	1004								
Contec/Cony	1011	1012	1036						
Craig	1036								
Crown	1036	1053							
Curtis Mathes	1000	1004	1014	1045	1073	1097			
CXC	1036								
Daewoo	1004	1005	1013	1015	1016	1097	1106	1135	
Daytron	1004	1097							
Deĺl	1141	1142	1146						

Remote	Code	List

Brand	Code								
TV									
Dimensia	1000								
Electroband	1002								
Electrohome	1002	1003	1004	1018	1021				
Emerson	1004	1011	1013	1025	1031	1033	1036	1044	1045
	1080	1097	1102	1107					
Envision	1004								
ESA	1046								
Fisher	1043	1045	1047	1103					
Fujitsu	1029	1044							
Funai	1036	1044							
Futuretech	1036								
Gateway	1038								
GE	1000	1003	1004	1008	1021	1048	1049	1063	1068
	1070	1144							
Goldstar	1004	1005	1011	1018	1050	1090	1091	1097	1098
Grunpy	1036	1044							
Hallmark	1004								
Harvard	1036								
Hisense	1112								
Hitachi	1004	1011	1012	1030	1051	1084	1085	1086	1102
	1132	1133	1134						
IMA	1036								
Infinity	1053								
Janeil	1100								
JBL	1053								
JC Penney	1000	1004	1005	1007	1012	1021	1048	1049	1058
	1063	1068	1072	1073	1075	1097	1098		
JCB	1002								
Jensen	1004								
JVC	1011	1012	1026	1049	1054	1055	1080	1117	1130
	1131								

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# Remote Code List

Brand	Code								
TV									
Optonica	1064	1099							
Orion	1023	1033	1107						
Panasonic	1003	1010	1049	1053	1096	1123	1140	1152	
Philco	1003	1004	1005	1007	1011	1018	1053	1056	1057
	1059								
Philips	1003	1007	1011	1017	1018	1037	1053	1056	1057
	1059	1063	1095	1126	1129	1148			
Philips Magnavo	x 1148								
Pilot	1097								
Pioneer	1004	1085	1102						
Portland	1004	1005	1015	1035	1097				
Price Club	1073								
Prima	1113								
Prism	1049								
Proscan	1000	1008	1068						
Proton	1004	1011							
Quasar	1003	1039	1049	1062	1069				
Radio Shack	1000	1045							
Radio Shack/F	Realistic	1004	1011	1036	1045	1064	1097	1098	
RCA	1000	1003	1004	1005	1008	1018	1028	1052	1065
	1067	1068	1071	1076	1082	1102	1104	1106	1108
	1115	1143	1151						
Realistic	1000	1045							
Sampo	1004	1097	1098	1120					
Samsung	1004	1005	1011	1014	1018	1019	1072	1073	1078
	1094	1097	1098						
Sansui	1023	1107	1122						
Sanyo	1045	1103							
Scotch	1004								
Scott	1004	1011	1033	1036	1044				

Brand	Code								
TV									
Sears	1000	1004	1012	1018	1044	1045	1047	1055	1058
	1068	1075	1103	1105					
Sharp	1004	1009	1011	1025	1064	1077	1092	1097	1099
	1138	1153							
Signature	1001								
Simpson	1007								
Sony	1002	1037	1109	1128	1137				
Soundesign	1004	1007	1036	1044					
Squareview	1105								
SSS	1036								
Starlite	1036								
Supre-Macy	1100								
Supreme	1002								
Sylvania	1004	1007	1018	1027	1046	1053	1056	1057	1059
•	1060	1124	1145	1150					
Symphonic	1024	1031	1036	1105					
Tandy	1099								
Tatung	1003								
Technics	1049								
Techwood	1004	1049							
Teknika	1001	1004	1005	1007	1011	1012	1015	1036	1044
	1060	1073	1096	1097					
TMK	1004								
Toshiba	1006	1045	1058	1073	1075	1079	1083	1087	1093
	1101	1116	1127						
Totevision	1097								
Universal	1048	1063							
Victor	1055								
Vidtech	1004	1005							
Viewsonic	1149								

# Remote Code List

Brand	Cada								
TV	Code								
Viking	1100								
Wards	1000	1001	1004	1005	1018	1031	1044	1048	1053
TTUTUS	1056	1057	1059	1060	1063	1064	1011	1010	1030
White Westin		1013	1037	1000	1000	1001			
Yamaha	1004	1005	1018						
Zenith	1001	1020	1081	1089	1118	1125			
TV/DV				1007	1110	1123			
Apex	1074	~ (	• /						
Broksonic	1114								
RCA	1076	1115							
Sansui	1122								
Sylvania	1150								
Toshiba	1116								
TV/DVE		00 (D	VD)						
Apex	3095								
Broksonic	3053								
RCA	3099	3063							
Sansui	3071								
Sylvania	3092								
Toshiba	3054								
TV/VCR	Comb	o (T\	<b>/</b> )						
Broksonic	1121								
GE	1070								
Quasar	1062	1069							
RCA	1028								
Samsung	1078								
Sylvania	1145								
Toshiba	1006								
Zenith	1118								

Remo	ote C	ode	Lis	t		
Brand	Code					
TV/VCR			CD)			
Broksonic	2098	ν) <del>σ</del>	SK)			
GF	2069					
Quasar	2067	2068				
RCA	2065	2000				
Samsung	2003					
Sylvania	2064					
Toshiba	2063					
Zenith	2060					
TV/DVE		Com	ho /T	۷\		_
Panasonic	1123	1152	90 (T	<b>v</b> )		
RCA	1123	1132				
Sharp	1153					
Sylvania	1027	1124				
Toshiba	1027	1101				
TV/DVE			ho /D	VD)		_
Panasonic	3075	3076	ם) סם	VD)		
RCA	3077	JU/ 0				
Sharp	3086					
Sylvania	3064	3078				
Toshiba	3094	3093				
TV/DVE			ho /V	CD)		
Panasonic	2072	2073	bo (V	CK)		
RCA	2072	20/3				
	2046					
Sharp		2071				
Sylvania Toshiba	2050	2071				
	2059	2056				
DVD	2027	2121				
Aiwa	3026	3131	2057	2005	2000	
Apex	3001	3056	3057	3095	3098	
Audiovox	3132					

Remo	te Co	de I	List				
Brand	Code						
DVD							
Blaupunkt	3136						
BOSĖ	3122	3130					
Broksonic	3053	3072					
Clarion	3100						
Classic	3101						
CyberHome	3083						
Daewoo	3058	3062	3137	3138			
Denon	3040	3110	3133				
Emerson	3059	3073					
Fisher	3112	3134					
GE	3041	3079	3118				
Go Video	3046	3124	3127	3129			
GPX	3114						
Harman Kardo	n 3125						
Hitachi	3000	3027	3126				
Irradio	3017						
JVC	3047	3090	3096	3097	3115		
Kenwood	3019	3039					
Konka	3029						
Lasonic	3081						
Magnavox	3002	3018					
Marantz	3034						
Memorex	3003						
Mintek	3004						
Mitsubishi	3021	3030	3123				
NAD	3059	3139					
Nakamichi	3116						
Norcent	3005	3117					
Onkyo	3006						
Oritron	3009						

Kemo	Remote Code List										
Brand	Code										
DVD											
Panasonic	3066	3075	3076								
Philips	3018	3032	3045	3051	3091	3109					
Pioneer	3008										
Polaroid	3007										
Proscan	3010	3033	3118								
Qwestar	3009										
RCA	3010	3048	3055	3063	3077	3099	3107	3118			
Sampo	3119										
Samsung	3012	3049	3074	3085	3102						
Sansui	3071										
Sanyo	3050	3120									
Sharp	3013	3015	3044	3086							
Sherwood	3121										
Sony	3014	3020	3022	3065	3067	3068	3069	3070	3087		
	3103	3108	3113								
Sylvania	3064	3078	3092								
Techwood	3141										
Toshiba	3023	3025	3037	3038	3054	3080	3084	3088	3093		
	3094	3135									
Yamaha	3028										
Zenith	3052	3128									
CD											
Denon	2104										
JVC	2099										
Onkyo	2100										
Pioneer	2101										
RCA	2102	2106									
Sony	2105										
Yamaha .	2103										

Remot	e Co	de I	List				
	Code						
Digital N	etwo	rk Re	cord	er			
Sony	2001						
DVR							
Panasonic	2004						
Philips	2002						
RCA	2000						
RePlay	2003						
Tivo	2000						
PVR							
Tivo	2087						
VCR							
Admiral	2027						
Adventura	2047						
Aiko	2048						
Aiwa	2047						
Akai	2081	2084					
American High	2042						
Asha	2035						
Audio Dynamics	2031	2032					
Audiovox	2036						
Beaumark	2034	2035					
Bell & Howell	2033						
Broksonic	2034	2078	2098				
Calix	2036						
Candle	2035	2036	2037	2039	2040		
Canon	2042						
Carver	2062						
CCE	2048	2061					
Citizen	2035	2036	2037	2039	2040	2048	
Colortyme	2031						
Colt	2061						

Brand	Code								
VCR									
Craig	2035	2036	2044	2061					
Curtis Mathes	2026	2031	2035	2040	2042				
Cybernex	2035								
Daewoo	2037	2039	2047	2048	2085				
DBX	2031	2032							
Dimensia	2026								
Dynatech	2047								
Electrohome	2036	2049							
Electrophonic	2036								
Emerson	2034	2036	2037	2042	2047	2049	2076	2097	
Fisher	2033	2044							
Fuji	2042	2084							
Funai	2028	2047							
Garrard	2047								
GE	2026	2035	2042	2069					
Go Video	2043	2045	2088	2092					
Goldstar	2031	2036	2040						
Gradiente	2047								
Harley Davidson	2047								
Harman Kardon									
Harwood	2061								
Headquarter	2033								
Hi-Q	2044								
Hitachi	2038	2058	2081						
Instant Replay	2042								
JC Penney	2031	2032	2033	2034	2035	2036	2042	2058	2061
	2062	2062							
JCL	2042								
Jensen	2058 20	081							

# Remote Code List

Brand	Code								
VCR									
JVC	2030	2031	2032	2033	2040	2081	2093		
Kenwood	2031	2032	2033	2040	2081				
KLH	2061								
Kodak	2036	2042							
LG	2036								
_Lloyd's	2047								
Logik	2061								
LXI	2036								
Magnavox	2042	2062	2077						
Magnin	2036								
Marantz	2031	2032	2033	2040	2042	2062			
Marta	2036								
Matsushita	2042								
MEI	2042								
Memorex	2027	2033	2035	2036	2042	2044	2047	2077	
MGA	2049								
MGN Technolog									
Midland	2057								
Minolta	2058								
Mitsubishi	2049	2058							
Montgomery		2027							
Motorola	2027	2042							
MTC	2035								
Multitech	2035	2047	2057	2061					
NEC	2031	2032	2033	2040	2081				
Nikko	2036								
Noblex	2035								
Olympus	2042								
Optimus	2027	2036							

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Brand	Code								
VCR									
Panasonic	2042	2072	2073	2079	2080	2082	2083		
Pentax	2058								
Pentex Resear	rch 2040								
Philco	2042	2062							
Philips	2042	2062	2091						
Pilot	2036								
Pioneer	2032	2058							
Polaroid	2041								
Portland	2039								
Proscan	2026								
Protec	2061								
Pulsar	2077								
Quarter	2033								
Quartz	2033								
Quasar	2042	2067	2068						
Radio Shack	2027	2036							
Radio Shack/		2033	2035	2036	2042	2044	2047	2049	
Radix	2036								
Randex	2036								
RCA	2026	2035	2042	2046	2058	2065	2066	2086	2094
Realistic	2027	2033	2035	2036	2037	2042	2044	2047	2049
Ricoh	2090								
Runco	2077								
Samsung	2035	2037	2054	2057	2070	2075	2095		
Sanky	2027	2077							
Sansui	2032	2081							
Sanyo	2033	2035	2044	2096					
Scott	2034	2037							
Sears	2033	2036	2042	2044	2058				
Sharp	2027	2039	2049	2055					
Shintom	2061	2084							

Remote Code List										
Brand	Code									
VCR										
Shogun	2035									
Signature	2027									
Singer	2042	2061	2090							
Sony	2051	2074	2084							
STS	2042									
Sylvania	2042	2047	2050	2062	2064	2071				
Symphonic	2028	2047								
Tandy	2033									
Tashiko	2036									
Tatung	2081									
Teac	2047	2081								
Technics	2042	2079								
Teknika	2036	2042	2047							
TMK	2035									
Toshiba	2037	2052	2053	2056	2058	2059	2063			
Totevision	2035	2036								
Unitech	2035									
Vector Research	2031	2032	2037							
Victor	2032									
Video Concepts	2031	2032	2037							
Videosonic .	2035									
Wards	2027	2035	2036	2037	2042	2044	2047	2049	2058	
	2061									
White Westingh	ouse	2028								
XR-1000	2042	2047	2061							
Yamaha	2031	2032	2033	2040	2081					
Zenith	2029	2060	2077	2084	2089	2090				
DVD/VCI	R Con	nbo (								
Broksonic	3072									
Daewoo	3062									
Emerson	3073									

Remo	te Co	de I	List		
Brand	Code	)			
DVD/V					
Go Video	3046	3127	3129		
Hitachi	3126				
JVC	3047	3097			
Panasonic	3066				
Philips	3051				
Polaroid	3007				
RCA	3048				
Samsung	3049	3085	3074		
Sanyo	3050				
Sony	3065	3067			
Toshiba	3080	3084			
Zenith	3052	3128			
DVD/V	CR Con	nbo (	VCR)		
Broksonic	2078				
Daewoo	2085				
Emerson	2076				
Go Video	2092	2043	2045		
Hitachi	2038				
JVC	2093	2030			
Panasonic	2082				
Philips	2091				
Polaroid	2041				
RCA	2094				
Samsung	2095	2054	2075		
Sanyo	2096				
Sony	2051	2074			
Toshiba	2052	2053			
Zenith	2089	2029			

Remote Code List									
Brand		Code							
Cable Bo	X								
ABC	4000	4001	4002	4004	4046				
Adelphia	4049								
Antronix	4006	4007							
Archer	4007	4008							
Cable Vision	4050								
Cabletenna	4006								
Cableview	4005								
Colour Voice	4010	4011							
Comcast	4051	4052							
Comtronics	4012								
Contec	4014								
COX	4053								
Eastern	4015								
GC Electronics	4007								
GE	4000	4001							
Gemini	4016	4017							
General Instru	ment	4051							
General Instru	ments	4001	4048						
Hamlin	4018	4019	4020	4026	4033	4039	4047		
Hitachi	4001								
Jerrold	4001	4016	4021	4022	4046	4048			
Magnavox	4023								
Memorex	4024								
Motorola	4052	4053	4054						
Movie Time	4025								
NEC	4003								
NSC	4025								
Oak	4014	4027							
Panasonic	4042	4045							
Philips	4009	4010	4011	4013	4017	4023	4028	4029	4030
Pioneer	4031	4032							

	Brand		Code					
	<b>Cable Bo</b>	x						
Ī	Proscan	4000	4001					
	RCA	4005	4041	4043	4045	4048		
	Realistic	4007						
Ī	Regal	4020	4033	4047				
	Regency	4015						
	Rembrandt	4001						
	Samsung	4032						
	Scientific Atlanta	4004	4034	4035	4036	4049		
Ī	Signal	4016						
	Signature	4001						
	Sony	4050						
Ī	Sprucer	4045						
	Standard Comp		4037	4038				
	Starcom	4016	4046					
	Stargate	4016						
	Starquest	4016						
Ξ	TIME WARNER	4055						
	Tocom	4002	4021					
	Tusa	4016						
	TV86	4025						
	Unika	4006	4007					
	United Cable	4046						
	Universal	4006	4007	4008				
	View Star	4014	4023	4025				
_	Zenith	4044						
	SAT							
	Alphastar	5023						
	Chaparral	5002	5003					
	DIRECTV	5069						
	Dishnet	5022						

# Remote Code List

Brand		Code							
SAT									
DISH Network	5061	5065	5066	5067	5068				
Drake	5004	5005							
Echostar	5030								
GE	5000	5001	5016	5033	5034	5056			
General Instrun	nents	5006	5007	5008					
Hitachi	5026	5027							
Hughes	5036	5058	5069						
Hughes Network	5069								
Hughes Network	Systems	5031	5069						
JVČ	5025								
Mitsubishi	5043	5045							
Panasonic	5019	5049	5052	5054					
Philips	5028	5039	5048	5057	5058	5063			
Pioneer	5053								
Primestar	5020								
Proscan	5000	5001	5016	5033	5034				
RCA	5000	5001	5016	5024	5033	5034	5040	5041	5055
	5058	5059							
Realistic	5009								
Samsung	5044	5046	5058						
Sony	5017	5035	5037	5038	5042	5047	5060	5062	
STS	5032								
STS1	5010								
STS3	5012								
STS4	5013								
Toshiba	5014	5018	5050						
Uniden	5015	5029							
Zenith	5051	5064							

Brand		Code							
Audio									
Aiwa	6000	6001	6002	6004	6005	6006	6007	6037	6054
BOSE	6007	6071							
Carver	6000	6036							
Citizen	6060								
Denon	6008								
Fisher	6036								
GE	6062								
Goldstar	6050	6055							
Harman Kardon	6000	6009	6047						
Hitachi	6068								
JBL	6009								
JVC	6010	6052	6058						
Kenwood	6011	6012	6049	6056					
Linn	6000								
Magnavox	6000	6069							
Marantz	6000	6034							
Nakamichi	6046								
NEC	6067								
Onkyo	6018	6039	6040	6051					
Optimus	6042								
Panasonic	6035								
Philips	6000								
Pioneer	6021	6022	6043	6044	6057	6070			
Proton	6069								
Quasar	6035								
RePlay	6062								
RCA	6024	6025	6026	6059					
Sansui	6000								
Sharp	6063	6064	6065	6066					
Sherwood	6027	6045							

# Remote Code List

Converge	
6081 Teac 6053 Technics 6016 6035 Toshiba 6061 Victor 6058 Wards 6000 6021 Yamaha 6003 6014 6015 6021 6041  HTIB (DVD) BOSE 3130 JBL 3043 Koss 3060 Onkyo 3024 Philips 3036 Pioneer 3016	
Teac 6053 Technics 6016 6035 Toshiba 6061 Victor 6058 Wards 6000 6021 Yamaha 6003 6014 6015 6021 6041  HTIB (DVD) BOSE 3130 JBL 3043 Koss 3060 Onkyo 3024 Philips 3036 Pioneer 3016	6080
Technics 6016 6035  Toshiba 6061  Victor 6058  Wards 6000 6021  Yamaha 6003 6014 6015 6021 6041  HTIB (DVD)  BOSE 3130  JBL 3043  Koss 3060  Onkyo 3024  Philips 3036  Pioneer 3016	
Toshiba 6061 Victor 6058 Wards 6000 6021 Yamaha 6003 6014 6015 6021 6041 HTIB (DVD) BOSE 3130 JBL 3043 Koss 3060 Onkyo 3024 Philips 3036 Pioneer 3016	
Victor 6058 Wards 6000 6021 Yamaha 6003 6014 6015 6021 6041  HTTIB (DVD)  BOSE 3130  JBL 3043 Koss 3060 Onkyo 3024 Philips 3036 Pioneer 3016	
Wards 6000 6021 Yamaha 6003 6014 6015 6021 6041  HTIB (DVD)  BOSE 3130  JBL 3043  Koss 3060  Onkyo 3024  Philips 3036  Pioneer 3016	
Yamaha         6003         6014         6015         6021         6041           HTIB (DVD)         BOSE         3130	
HTIB (DVD)  BOSE 3130  JBL 3043  Koss 3060  Onkyo 3024  Philips 3036  Pioneer 3016	
BOSE     3130       JBL     3043       Koss     3060       Onkyo     3024       Philips     3036       Pioneer     3016	
JBL     3043       Koss     3060       Onkyo     3024       Philips     3036       Pioneer     3016	
Koss         3060           Onkyo         3024           Philips         3036           Pioneer         3016	
Onkyo         3024           Philips         3036           Pioneer         3016	
Philips 3036 Pioneer 3016	
Pioneer 3016	
RCA 3042	
Sony 3108 3113	
Venturer 3011	
HTIB (AUDIO)	
BOSE 6071	
JBL 6072	
Koss 6074	
Onkyo 6075	
Philips 6077	
Pioneer 6078	
RCA 6079	
Sony 6081 6080	
Venturer 6082	

Notes	

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